

WHAT IS CLAIMED IS:

1. An electronic component comprising:
a magnetic member comprising an iron oxide magnetic composition;
a nonmagnetic member in contact with the magnetic member and
comprising a glass ceramic composite composition; and
5 an internal conductor portion disposed in at least one of the magnetic
member and the nonmagnetic member, wherein
the glass ceramic composite composition comprises crystallized glass
as a main component, and quartz as a sub-component filler,
the crystallized glass containing 25 percent by weight to 55 percent by
10 weight of SiO₂, 30 percent by weight to 55 percent by weight of MgO, 5 percent by
weight to 30 percent by weight of Al₂O₃, and 0 percent by weight to 30 percent by
weight of B₂O₃, and
the content of the quartz in the glass ceramic composite composition
is 5 percent by weight to 30 percent by weight relative to 100 percent by weight of
15 the crystallized glass.
2. The electronic component according to claim 1, further comprising
external electrodes electrically connected to the internal conductor portion.
3. The electronic component according to claim 1, wherein the magnetic
member and the nonmagnetic member are laminated together.
4. The electronic component according to claim 3, wherein the internal
conductor portion comprises internal electrode layers provided in the nonmagnetic
member and internal electrode coils provided in the magnetic member.
5. The electronic component according to claim 4, wherein the internal
electrode layers are arranged so as to oppose each other in the nonmagnetic member.

6. A noise filter comprising:
a plurality of adjacent magnetic layers;
at least two opposed signal lines disposed between two adjacent
magnetic layers of the plurality of adjacent magnetic layers;
5 a dielectric member provided between the at least two opposed signal
lines; and
at least two opposed ground electrodes disposed on either side of the
at least two opposed signal lines, wherein
the dielectric member is a glass ceramic composite composition
10 which includes crystallized glass as a main component, and quartz as a sub-
component filler,
the crystallized glass containing 25 percent by weight to 55 percent by
weight of SiO_2 , 30 percent by weight to 55 percent by weight of MgO , 5 percent by
weight to 30 percent by weight of Al_2O_3 , and 0 percent by weight to 30 percent by
15 weight of B_2O_3 , and
the content of the quartz in the glass ceramic composite composition
is 5 percent by weight to 30 percent by weight relative to 100 percent by weight of
the crystallized glass.
7. The noise filter according to claim 6, wherein the at least two opposed
signal lines are parallel to each other.
8. The noise filter according to claim 6, wherein the at least two opposed
signal lines are each formed as meandering lines.